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DRAWINGS (49 SHEETS)

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Title: **DIGITAL BROADCASTING SYSTEM, DIGITAL
BROADCASTING APPARATUS AND RECEIVER
APPARATUS FOR DIGITAL BROADCASTS**

Attorney's
Docket No.: **NAK1-BA36a**

EXPRESS MAIL LABEL NO. EL852659356US
DATE OF DEPOSIT: June 15, 2001

FIG. 1

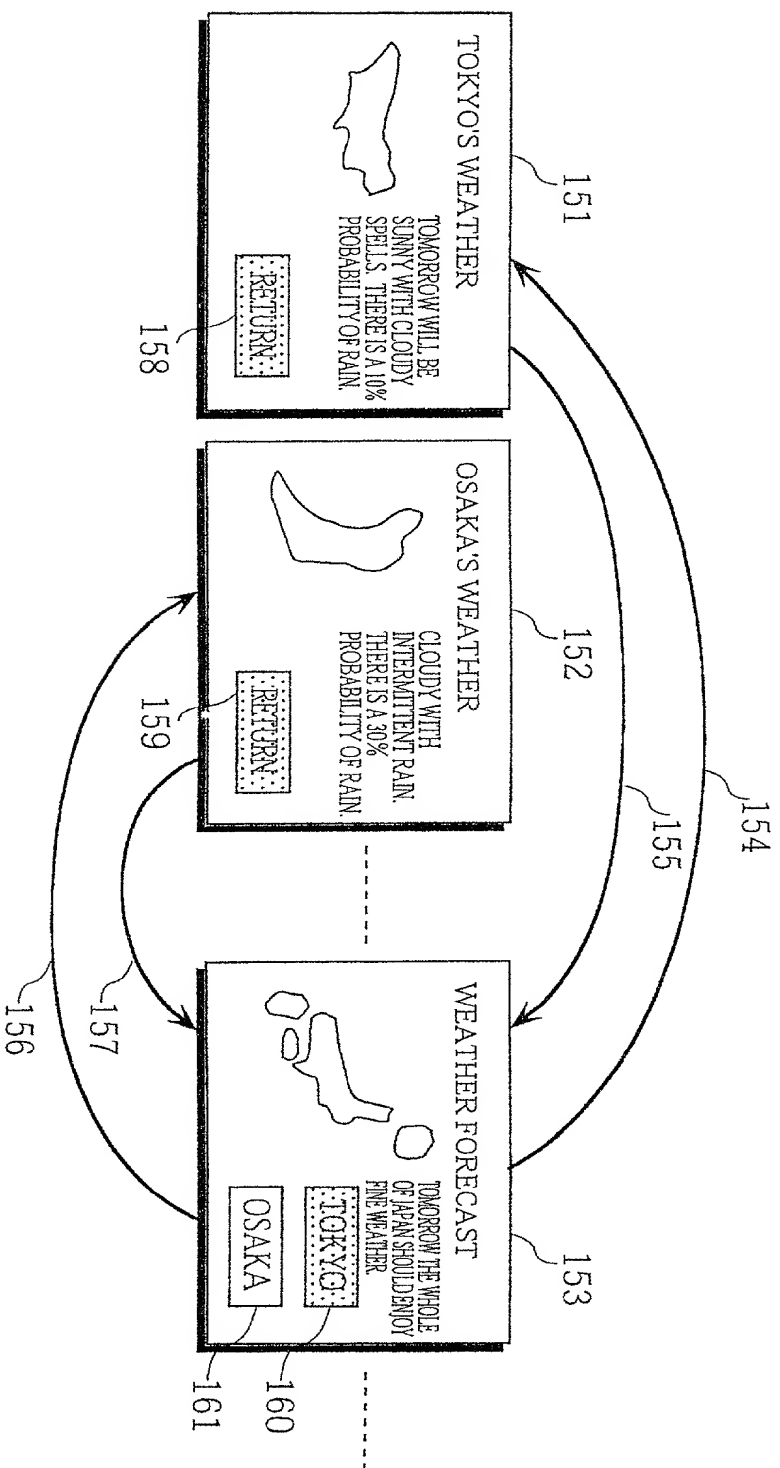
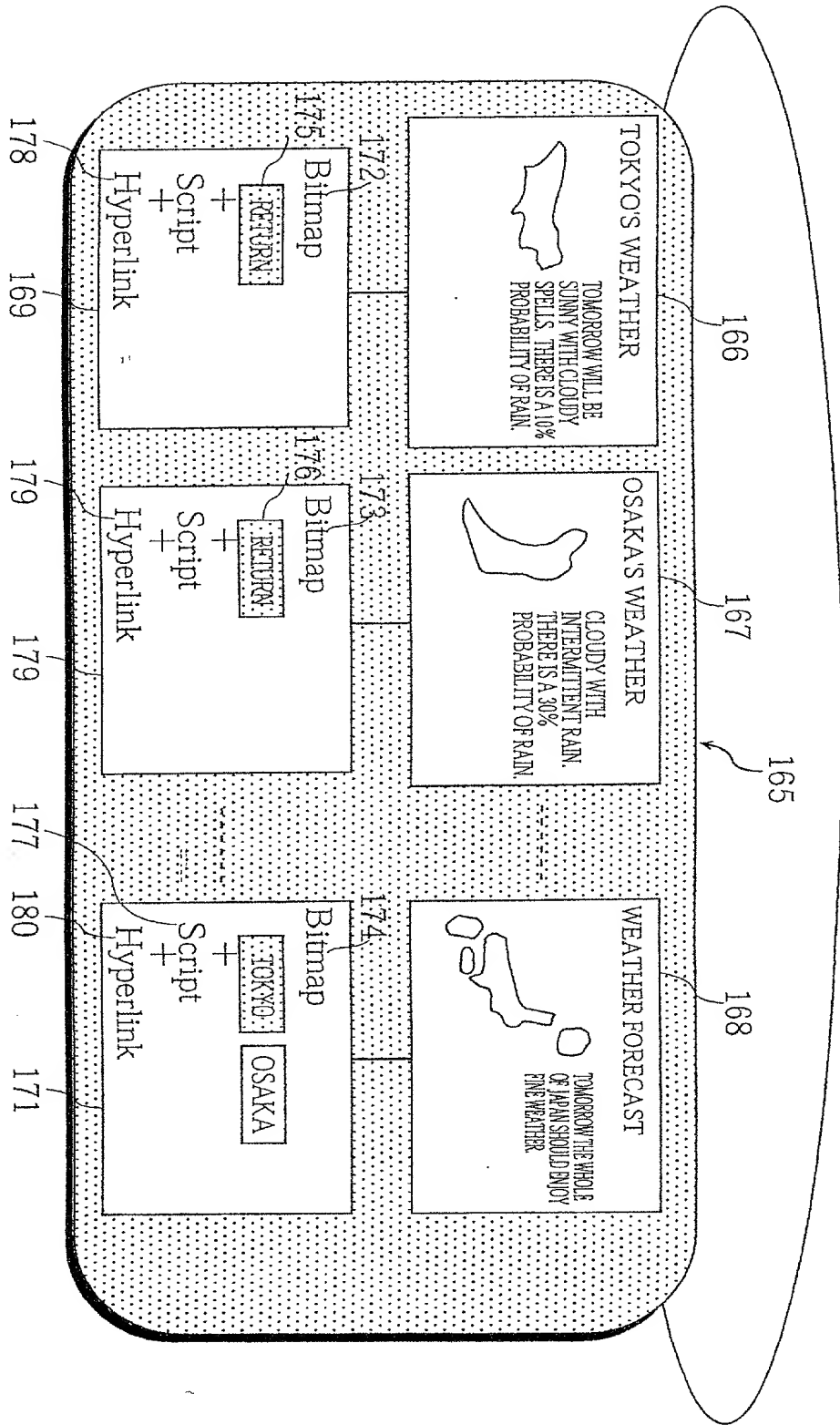
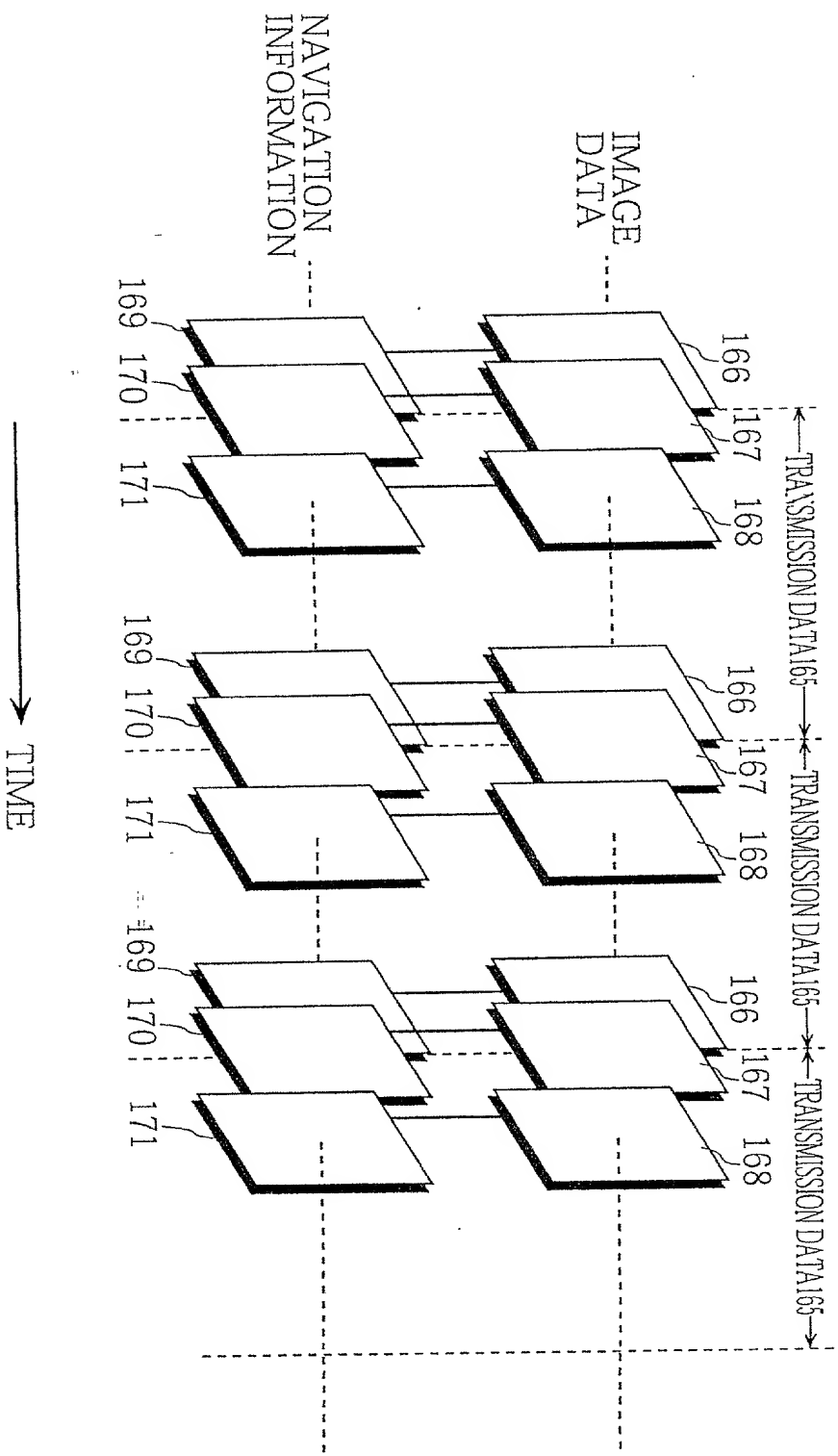


FIG. 2



00004000 00000000

FIG. 3



00000000 00000000

FIG. 1

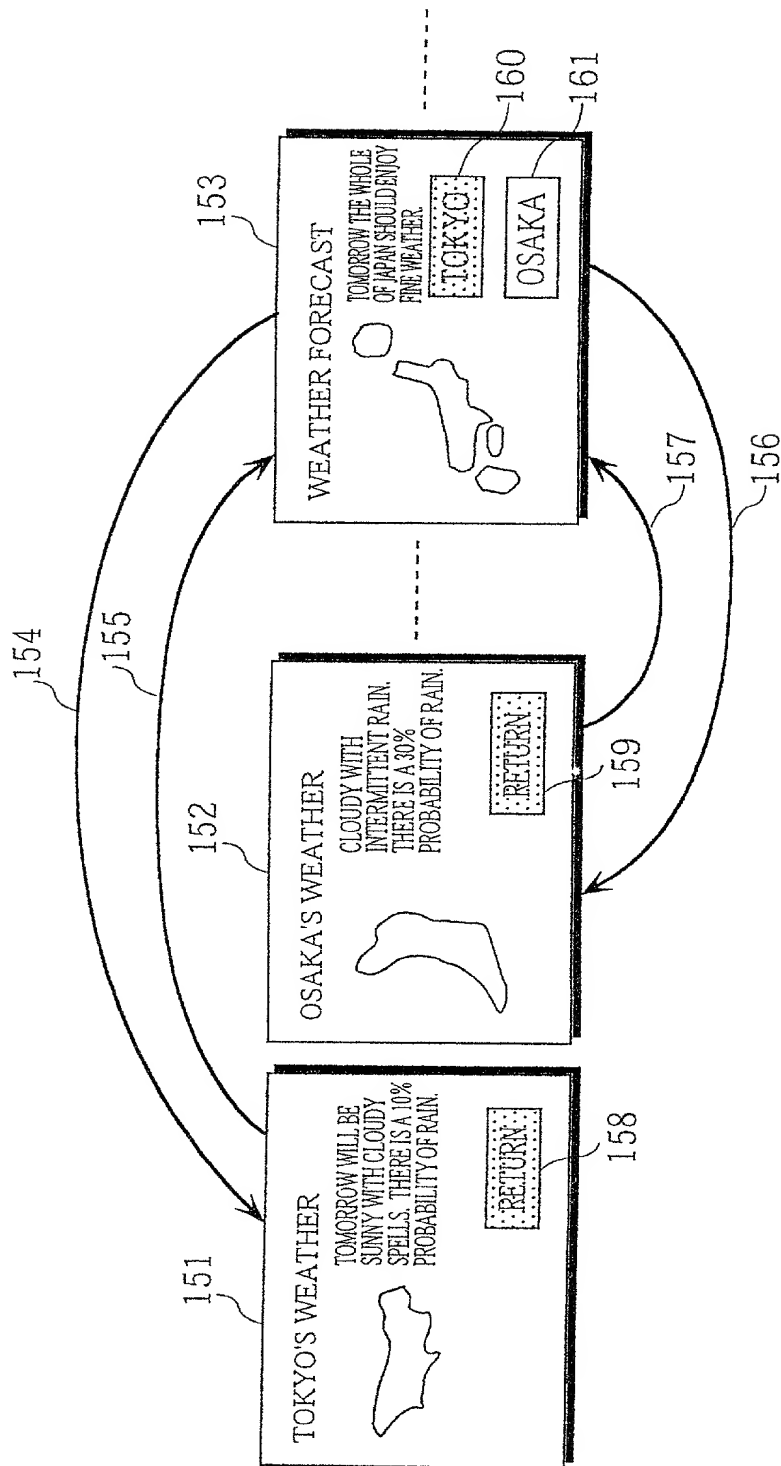


FIG. 2

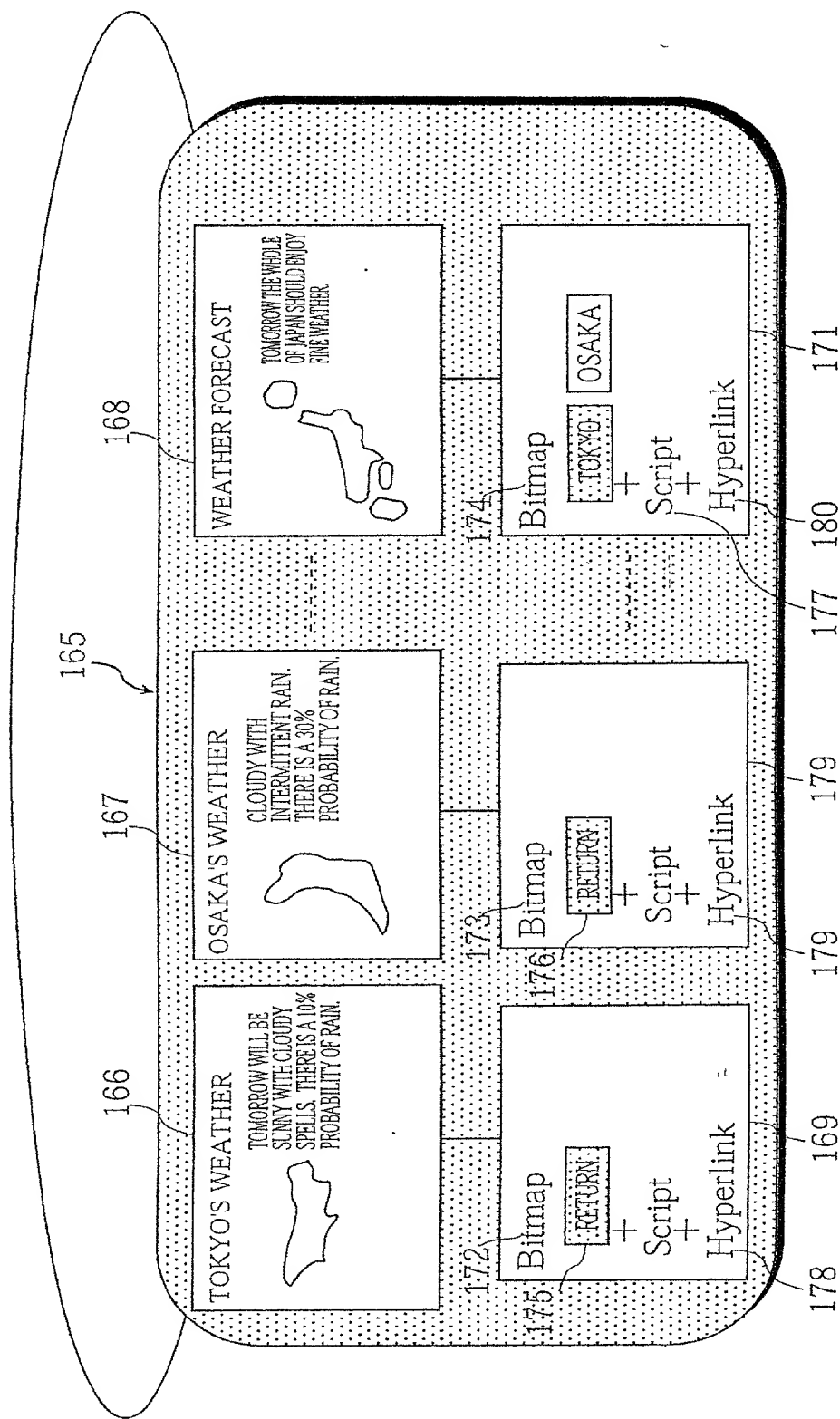
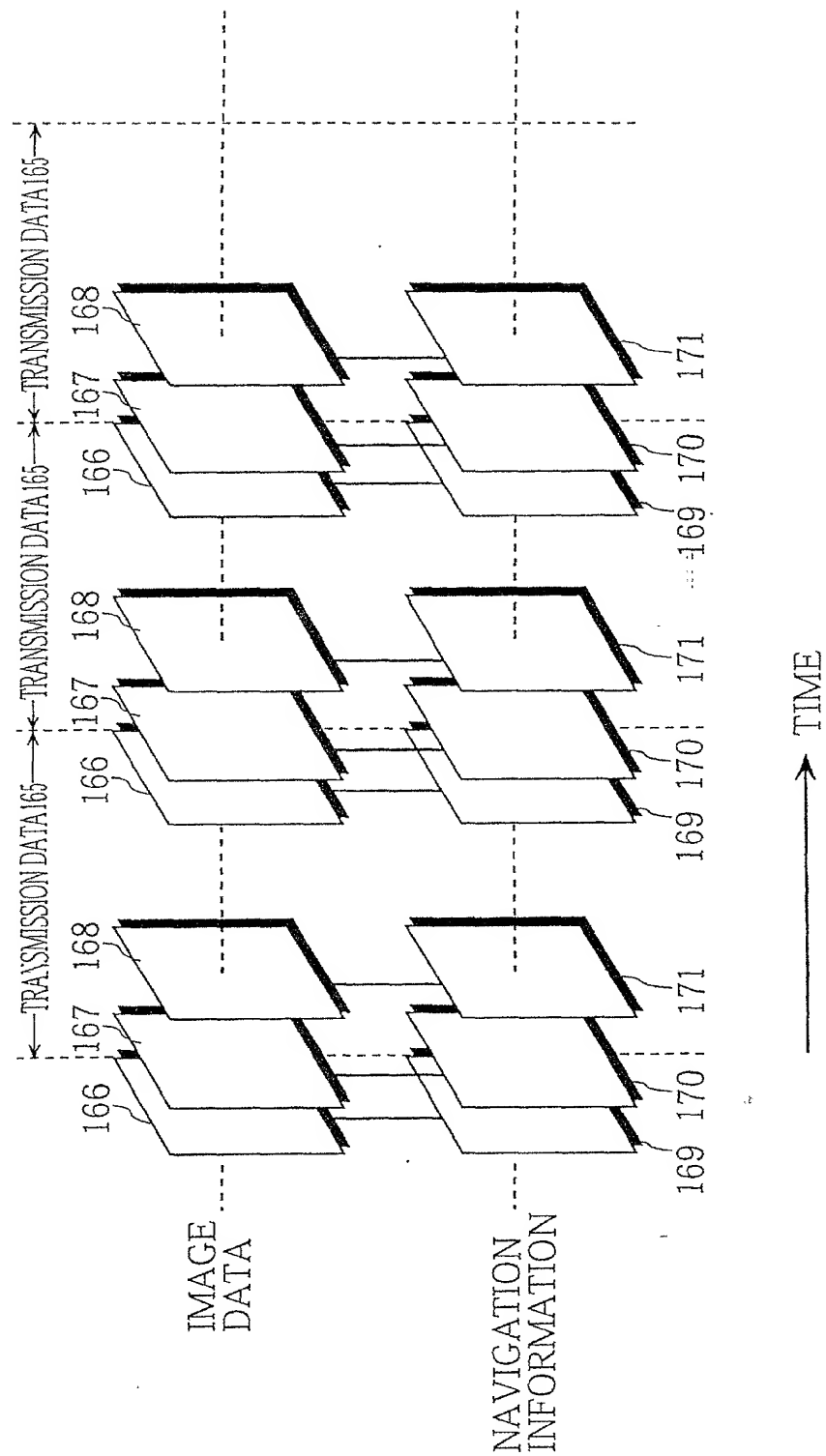
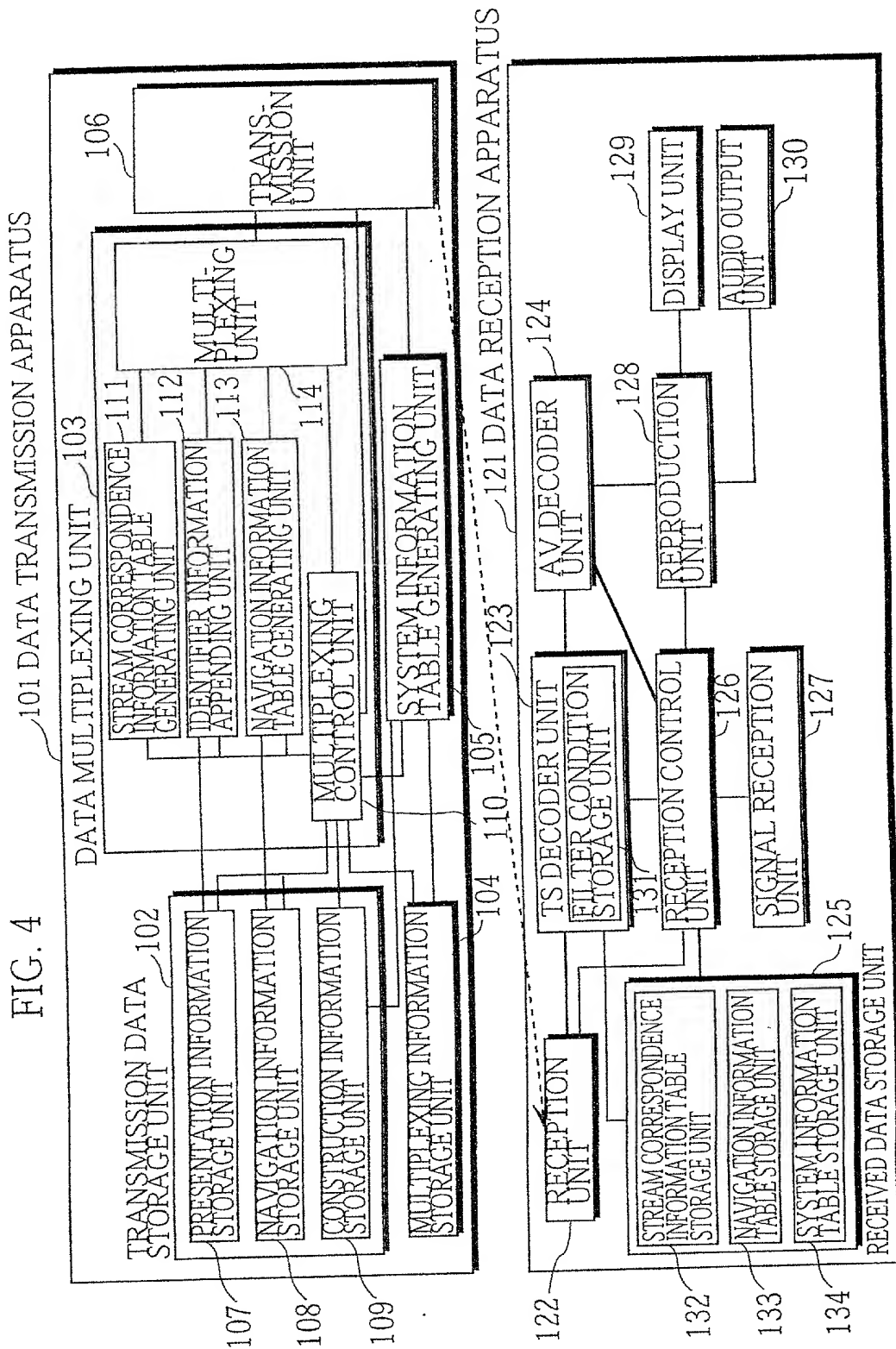


FIG. 3





still5.m2v



still.m2v



FIG. 6

navi5.nif

301

Object Definition Table :

302

306

Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	400	300	2	6	7
1	Button	400	400	3	8	9

Handler Definition Table :

303

Index	Script
2	goto_content (index 4)
3	goto_content (index 5)

Hyperlink Table :

304

Index	Content Number
4	1
5	2

Bitmap Table :

305

Index	Bitmap Data
6	TOKYO
7	TOKYO
8	OSAKA
9	OSAKA

FIG. 7

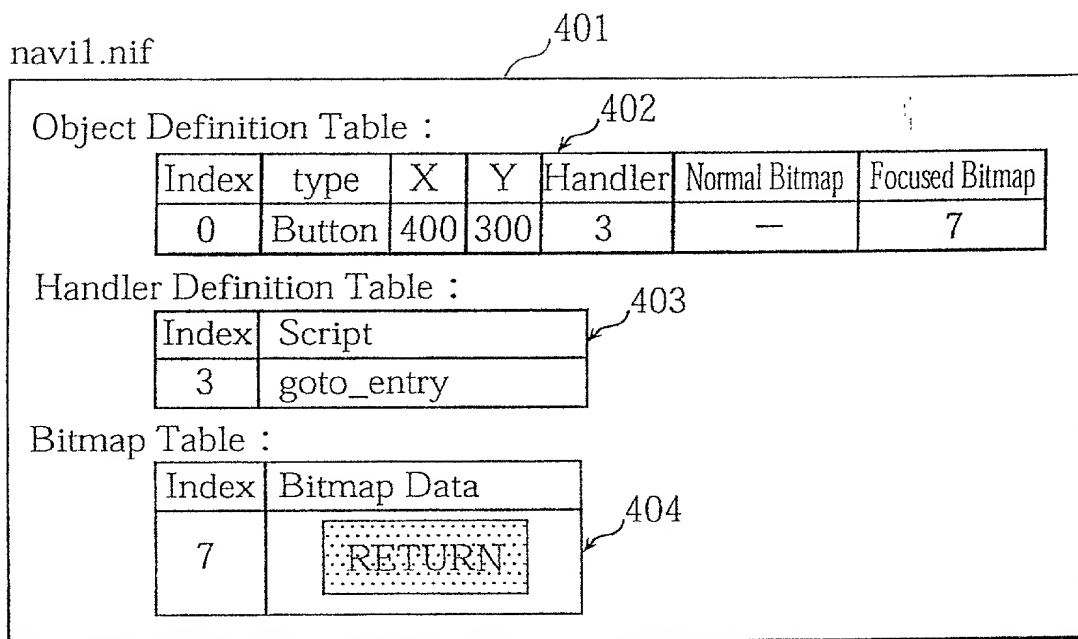


FIG. 8

501 CONSTRUCTION INFORMATION TABLE

CONTENT NUMBER	IMAGE DATA	NAVIGATION INFORMATION
0	still0.m2v	navi0.nif
1	still1.m2v	navi1.nif
2	still2.m2v	navi2.nif
:	:	:
5	still5.m2v	navi5.nif
:	:	:

ENTRY INFORMATION 502

ENTRY CONTENT NUMBER	5
----------------------	---

FIG. 9

601 MULTIPLEXING INFORMATION TABLE

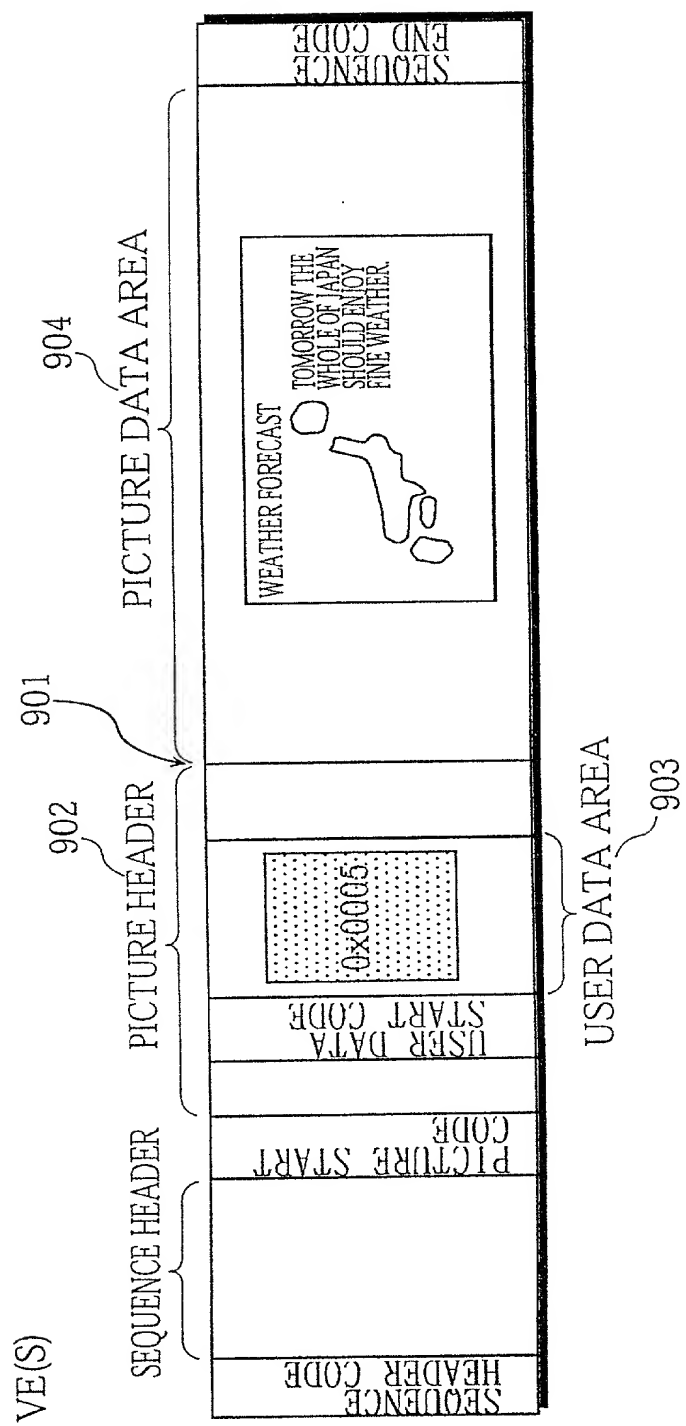
Bitrate	6000000bps
original_network_id	0x0001
transport_stream_id	0x0001
service_id	0x0001
event_id	0x0001
PMT_PID	0x0080
PCR_PID	0x0081
NE_component_pid	0x0082
VE_information_component_pid	0x0083
VE_component_pid	0x0084

FIG. 11

801 DISPLAY IMAGE INFORMATION IDENTIFIER
ASSIGNING TABLE

709 VE_id	802 component_tag	803 PID	804 stream_id	805 IMAGE DATA FILE
0x0000	0x00	0x0084	0xe0	still0.m2v
0x0001	0x00	0x0084	0xe1	still1.m2v
0x0002	0x00	0x0084	0xe2	still2.m2v
:	:	:	:	:
0x0005	0x00	0x0084	0xe5	still5.m2v
:	:	:	:	:
0x000f	0x00	0x0084	0xef	still15.m2v
0x0010	0x00	0x0084	0xe0	still16.m2v
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:

FIG. 12



NVT(5) FIG. 13 1001

Object Definition Table : 1002

Index	type	X	Y	Handler	Normal Bitmap	Focused Bitmap
0	Button	400	300	2	6	7
1	Button	400	400	3	8	9

Handler Definition Table : 1003

Index	Script
2	goto_content (index 4)
3	goto_content (index 5)

Hyperlink Table : 1004

Index	orig_nw_id	is_id	VE_service_id	VE_event_id	VE_id	AE_service_id	AE_event_id	AE_id	NE_service_id	NE_event_id	NE_id
4	—	—	—	—	0x0001	—	—	—	—	—	0x0001
5	—	—	—	—	0x0002	—	—	—	—	—	0x0002

Bitmap Table :

Index	Bitmap Data
6	TOKYO
7	TOKYO
8	OSAKA
9	OSAKA

1005

FIG. 14

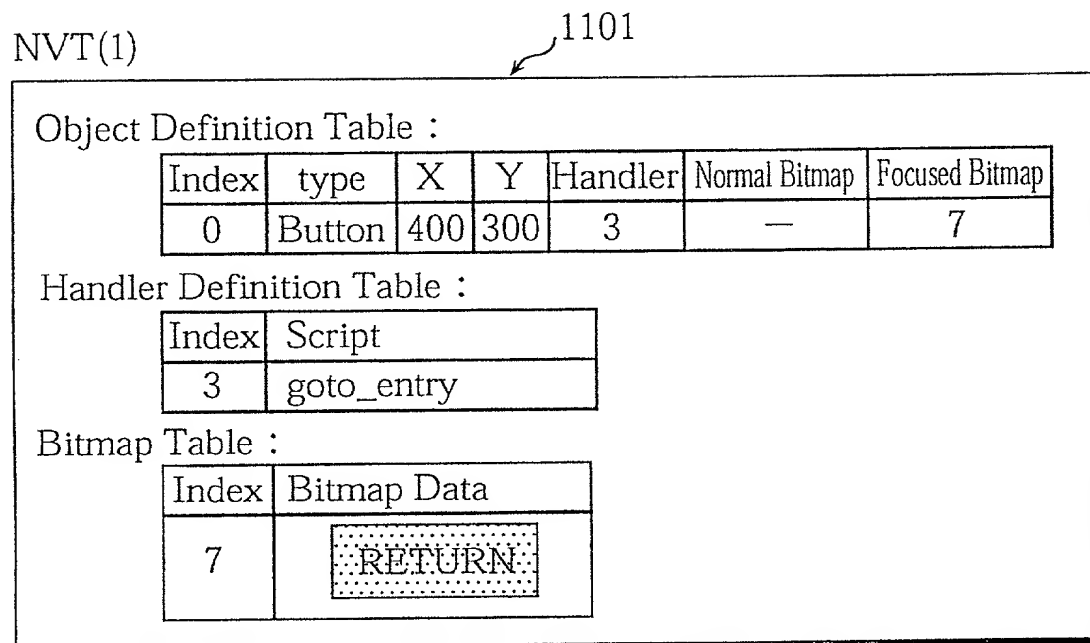


FIG. 15A

VET(5)

1201

first_pts	112500
last_pts	112500
stream_id	0xe5
component_tag	0x00

FIG. 15B

VET(1)

1202

first_pts	45000
last_pts	45000
stream_id	0xe1
component_tag	0x00

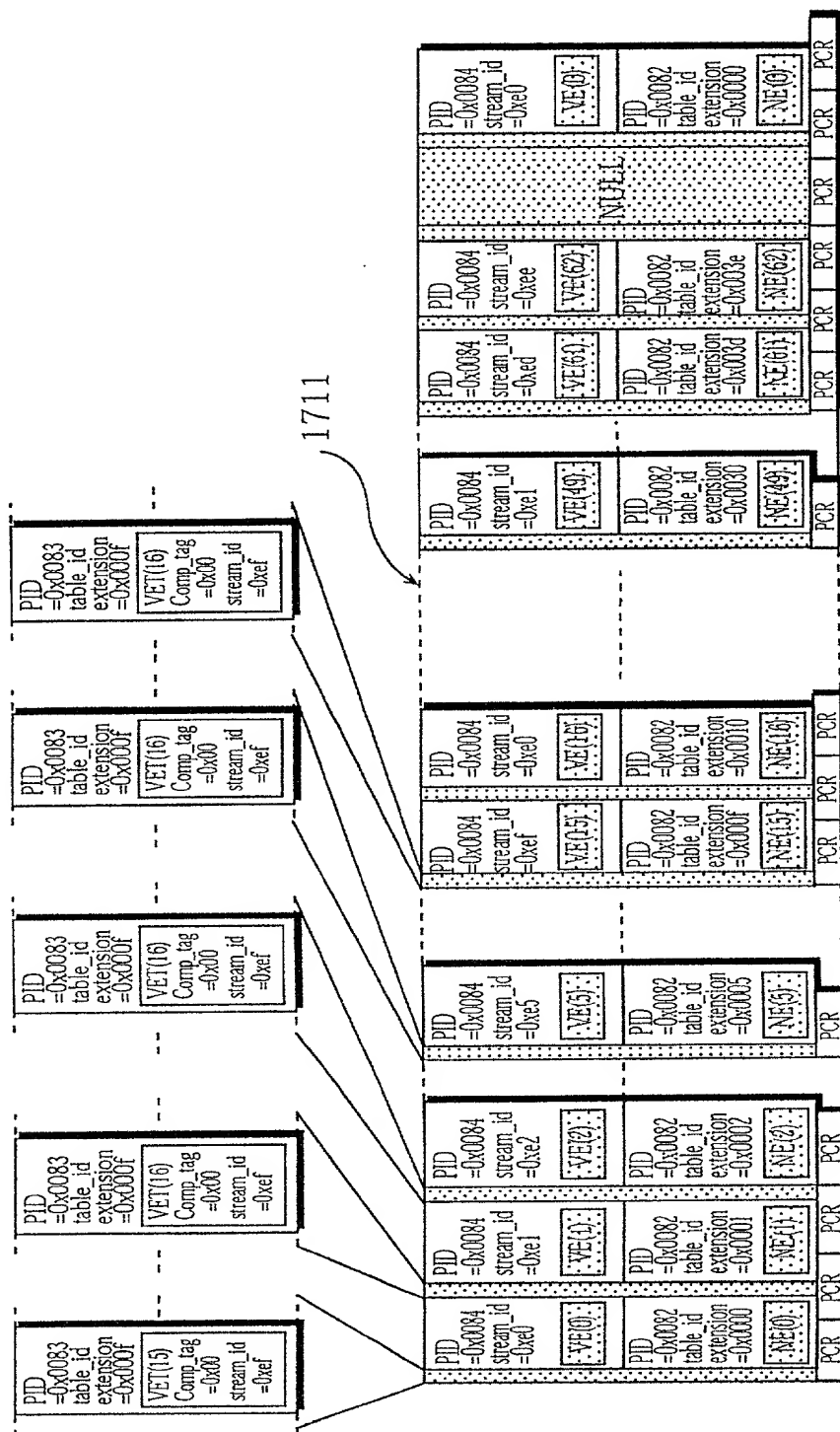
FIG. 15C

VET(15)

1203

first_pts	360000
last_pts	360000
stream_id	0xef
component_tag	0x00

FIG. 17



Network Information Table 1301

table_id=0x40		
network_id=0x0001		
original_network_id	transport_stream_id	descriptor
:	:	:
0x0001	0x0001	TRANSFER PREFACE
:	:	:

FIG. 18A

Event Information Table 1303

table_id=0x4c	
service_id=0x0001	
event_id	descriptor
:	:
0x0001	EVENT NAME AND OTHER INFORMATION
:	:

FIG. 18C

Service Description Table 1302

table_id=0x42	
transport_stream_id=0x0001	
service_id	descriptor
:	:
0x0001	SERVICE NAME AND OTHER INFORMATION
:	:

FIG. 18B

FIG. 19

Program Association Table 1401

table_id=0x00	
⋮	
transport_stream_id=0x0001	
⋮	
program_no	PMT_pid
⋮	⋮
0x0001	0x0080
⋮	⋮

FIG. 20

Program Map Table 1501

table_id=0x02		
⋮		
program_number=0x0001		
⋮		
PCR_PID=0x0081		
⋮		
Entry_Descriptor		
⋮		
PID	stream_type	descriptor
0x0082	0x05	NE_Component_Descriptor
0x0083	0x05	VE_Information_Component_Descriptor
0x0084	0x02	stream_identifier_descriptor

FIG. 21A

Entry_Descriptor

descriptor_tag	0x98	
.....		
entry_VE_id	entry_AE_id	entry_NE_id
0x0005	——	0x0005

FIG. 21B

NE_Component_Descriptor

descriptor_tag	0x99
:	

FIG. 21C

VE_Information_Component_Descriptor

descriptor_tag	0x9a
:	

FIG. 21D

stream_identifier_descriptor

descriptor_tag	0x52
:	
component_tag	0x00

FIG. 22

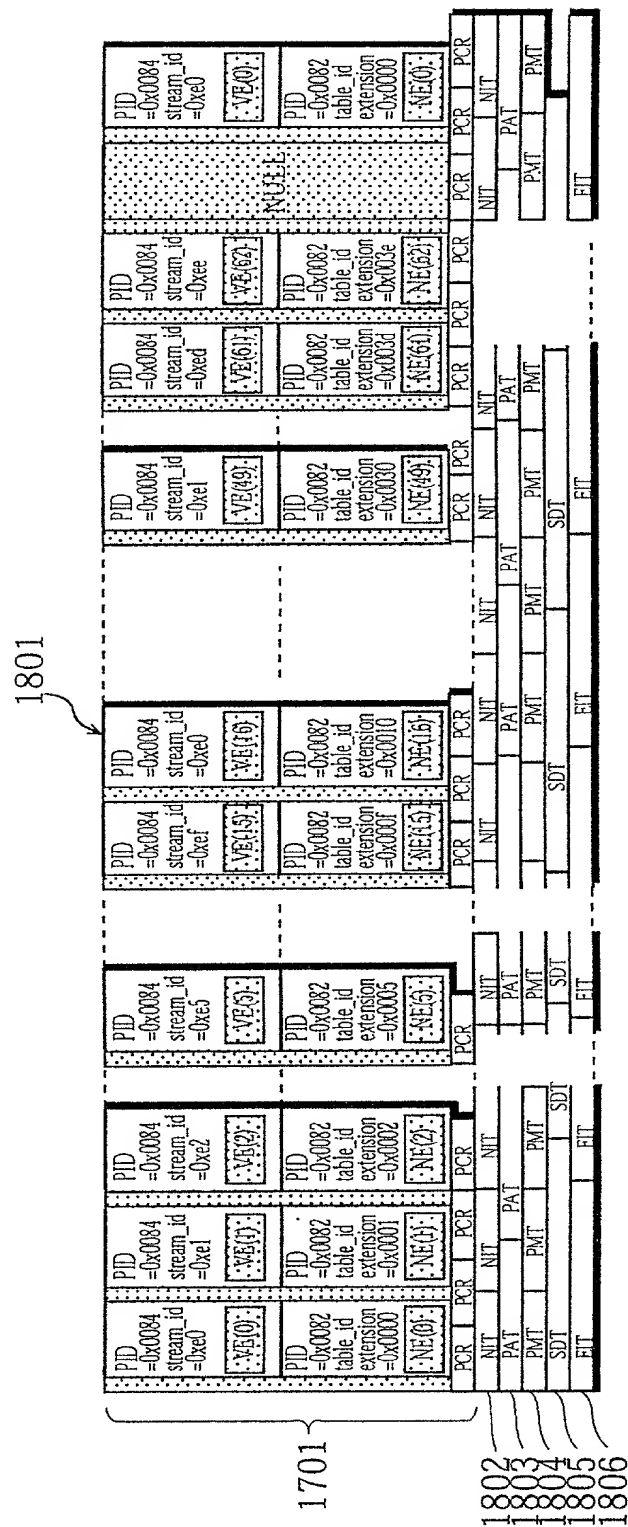


FIG. 23

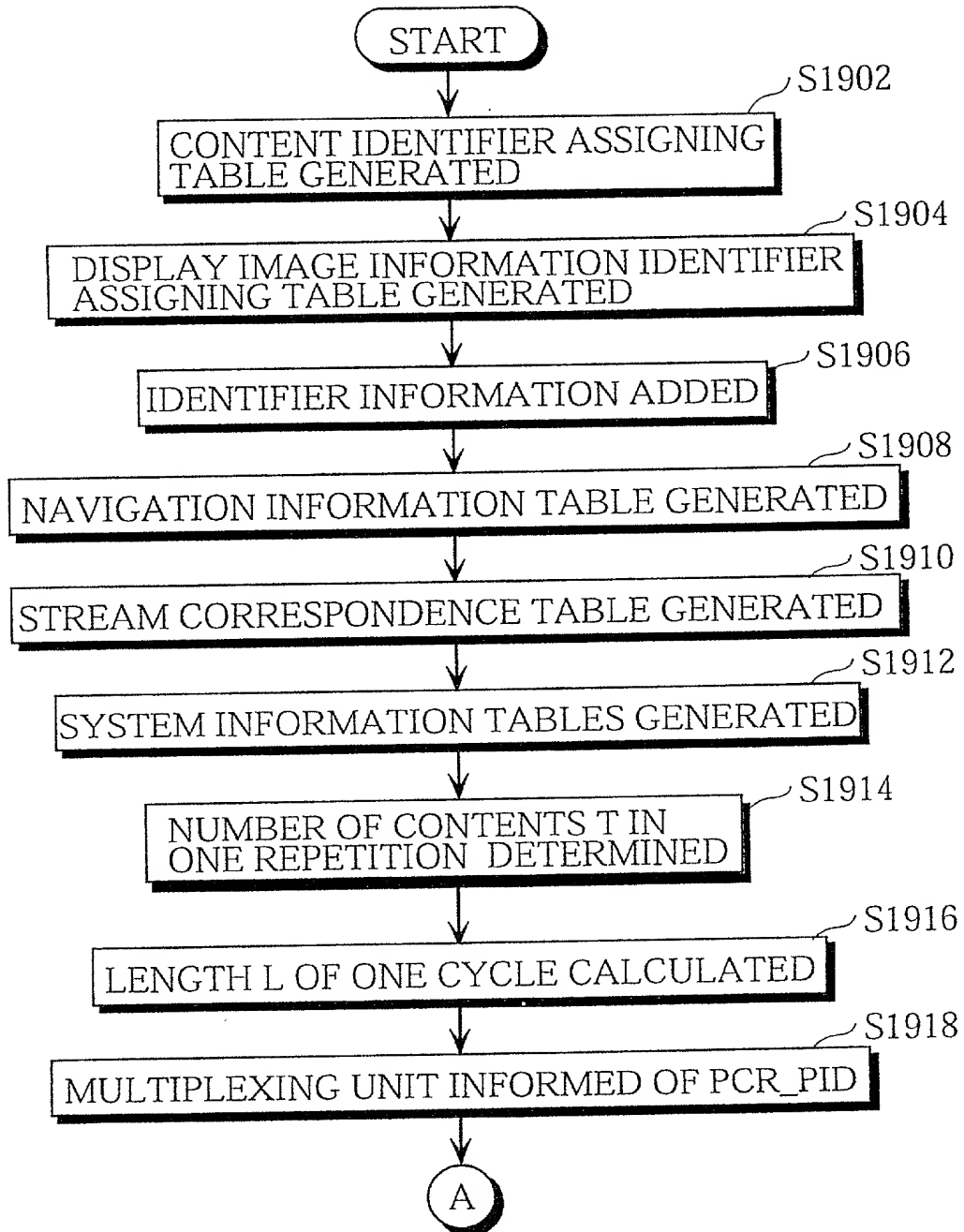


FIG. 24

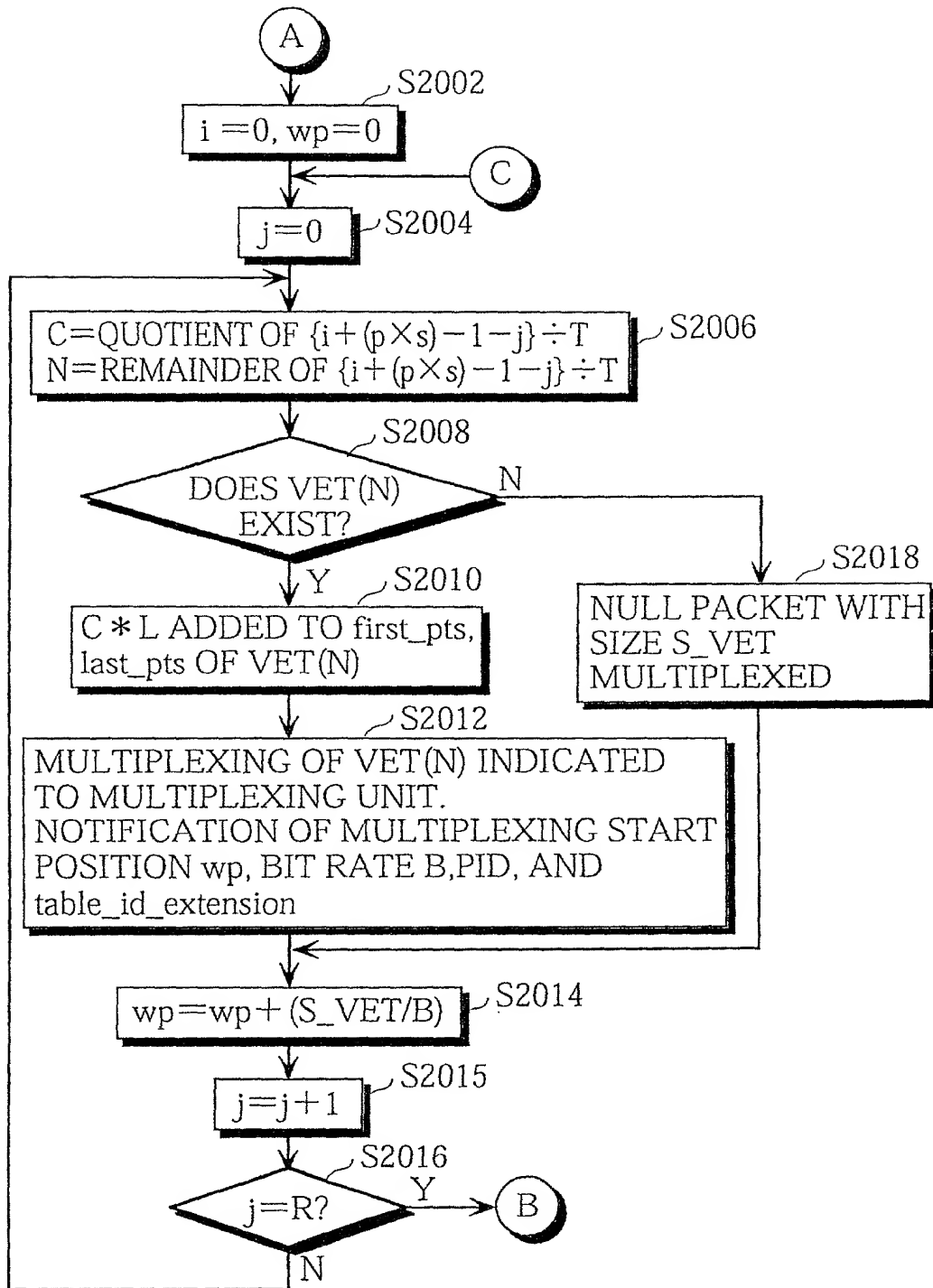


FIG. 25

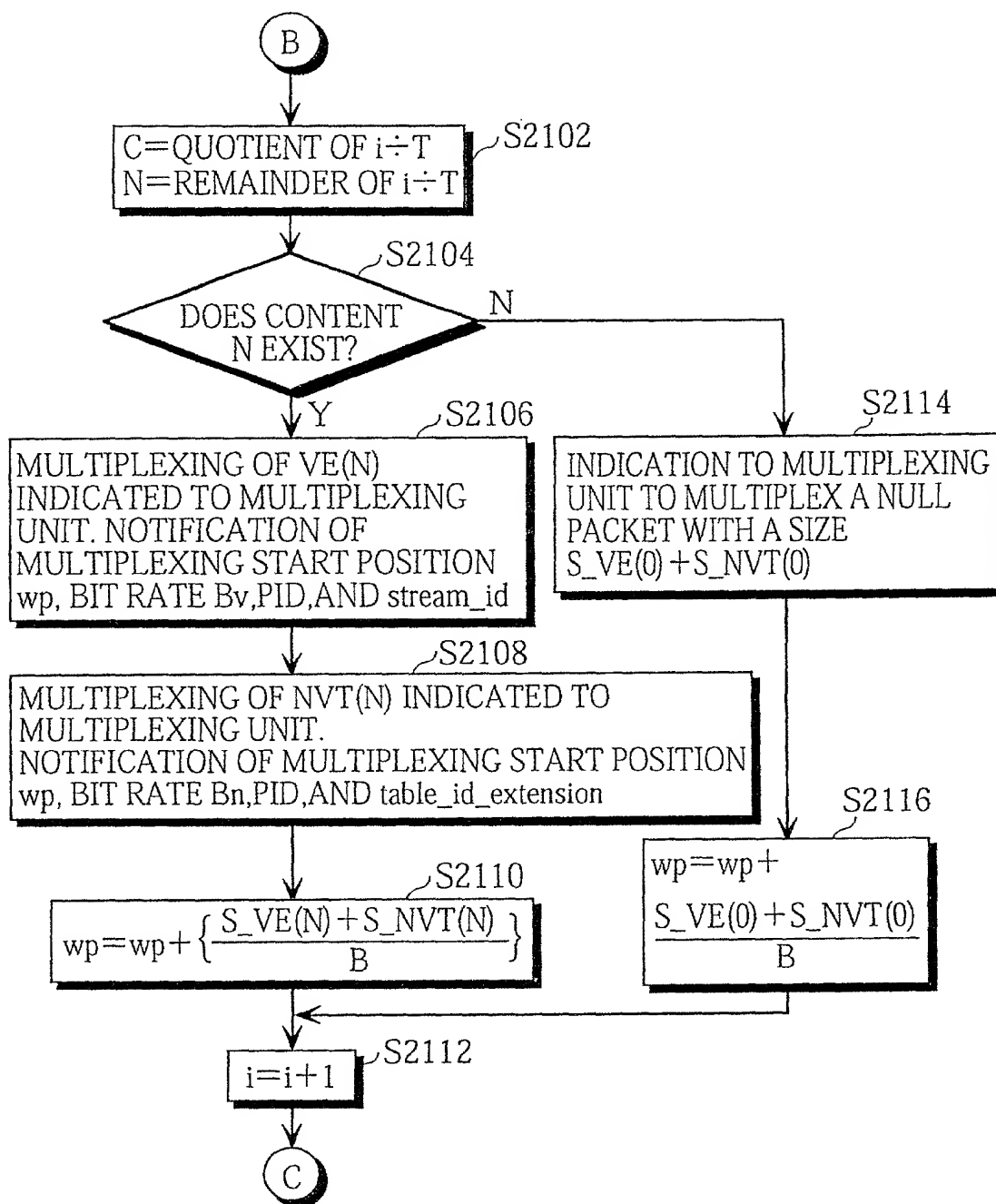


FIG. 26A

2202 FILTER IDENTIFICATION NUMBER	2203 START/STOP	2204 PID	2205 stream_id	2206 table_id_extension	2207 OUTPUT DESTINATION
0	STOP	—	—		AV DECODER UNIT
1	STOP	—	—		AV DECODER UNIT
2	START	0x0083		0x0005	STREAM CORRESPONDENCE INFORMATION TABLE STORAGE UNIT
3	START	0x0082		0x0005	NAVIGATION INFORMATION TABLE STORAGE UNIT

FIG. 26B

2202 FILTER IDENTIFICATION NUMBER	2203 START/STOP	2204 PID	2205 stream_id	2206 table_id_extension	2207 OUTPUT DESTINATION
0	START	0x0084	0xe5		AV DECODER UNIT
1	STOP	—	—		AV DECODER UNIT
2	STOP	—		—	STREAM CORRESPONDENCE INFORMATION TABLE STORAGE UNIT
3	START	0x0082		0x0005	NAVIGATION INFORMATION TABLE STORAGE UNIT

FIG. 27A 2301

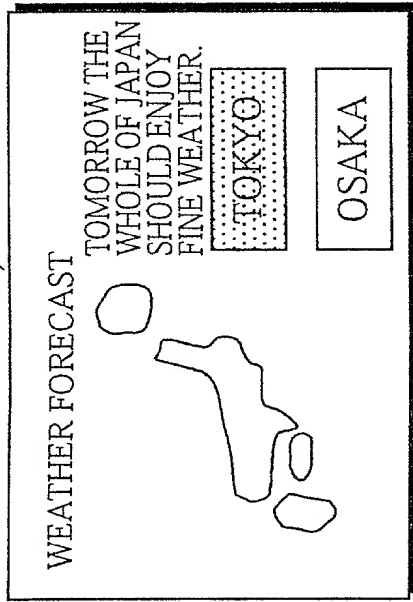


FIG. 27B 2302

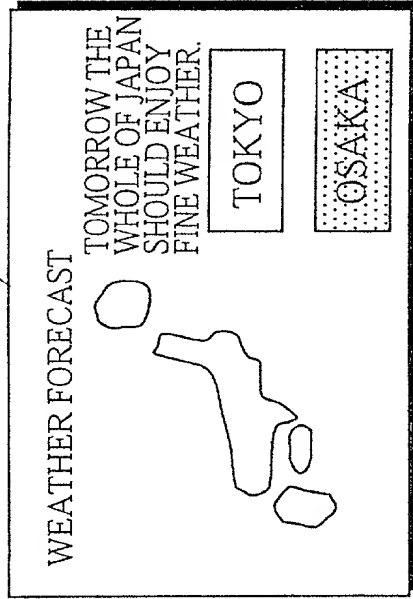


FIG. 27C 2303

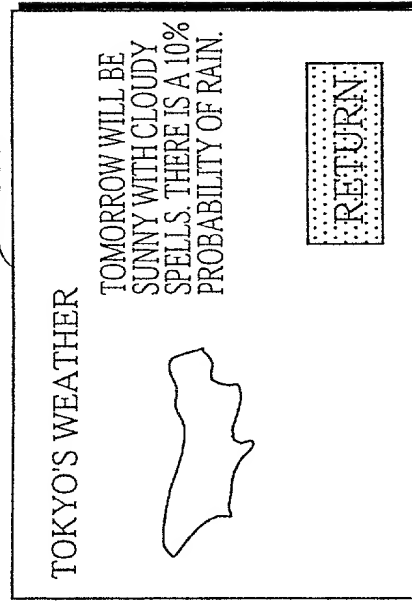
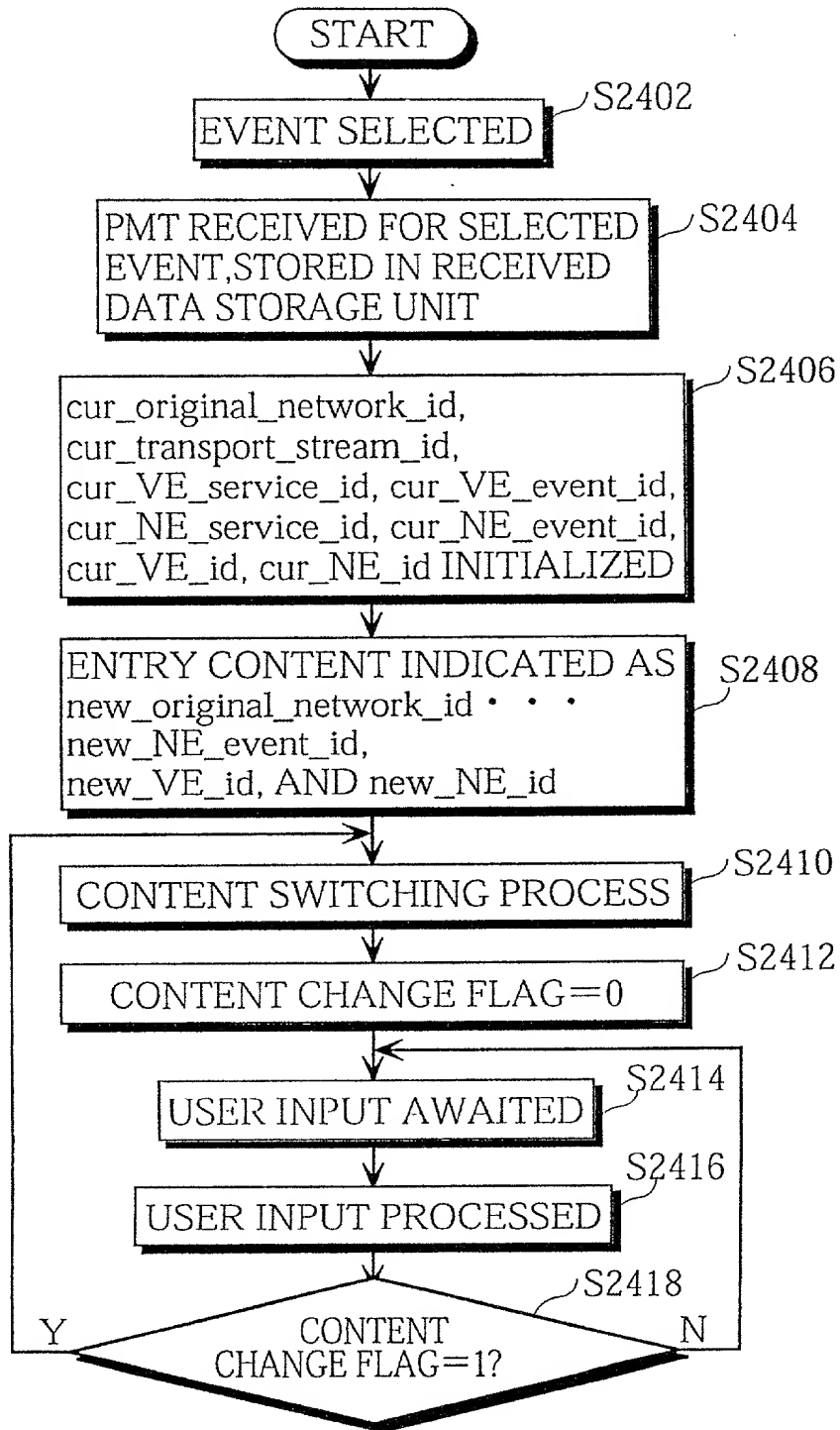


FIG. 28



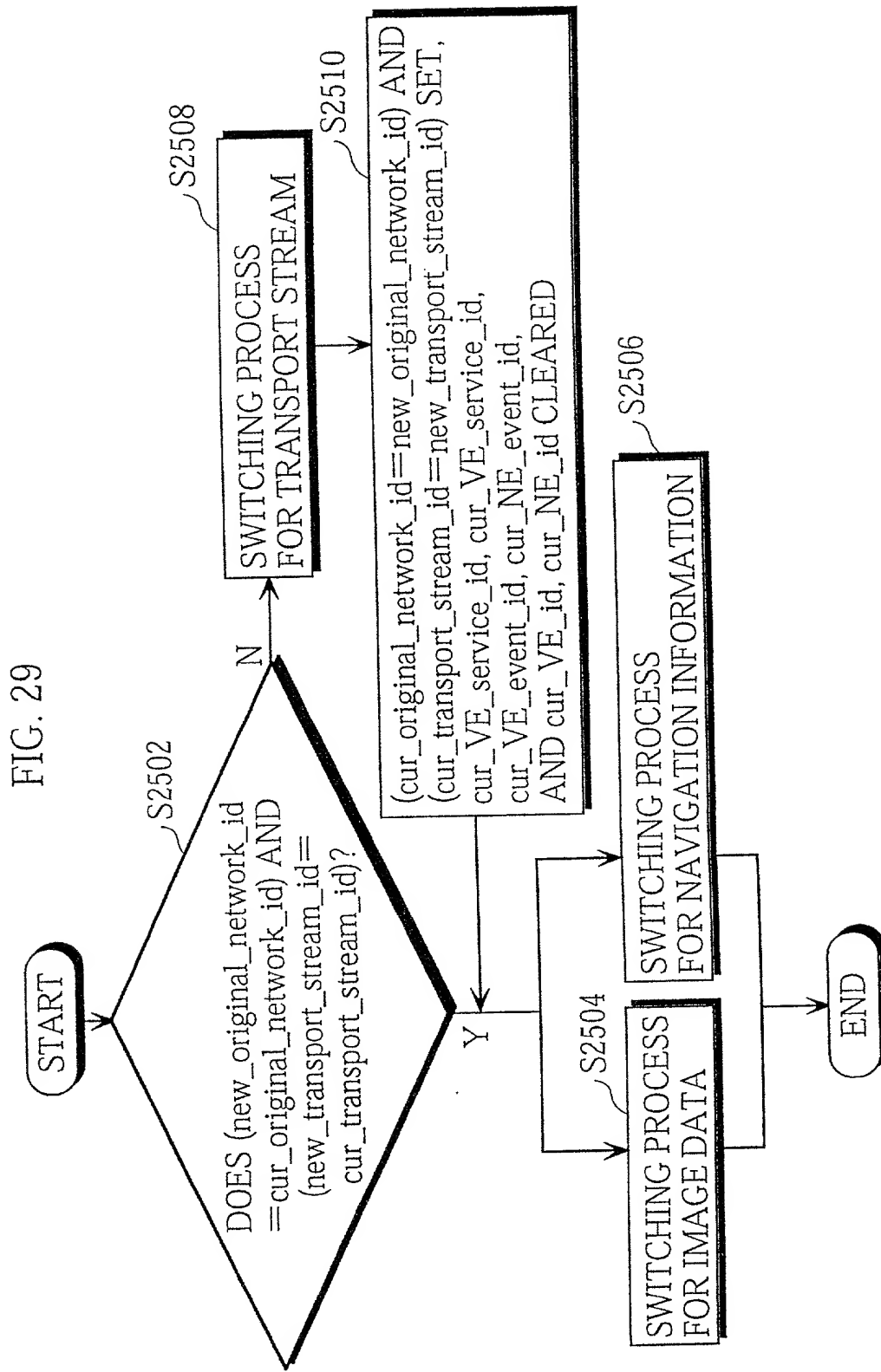


FIG. 30

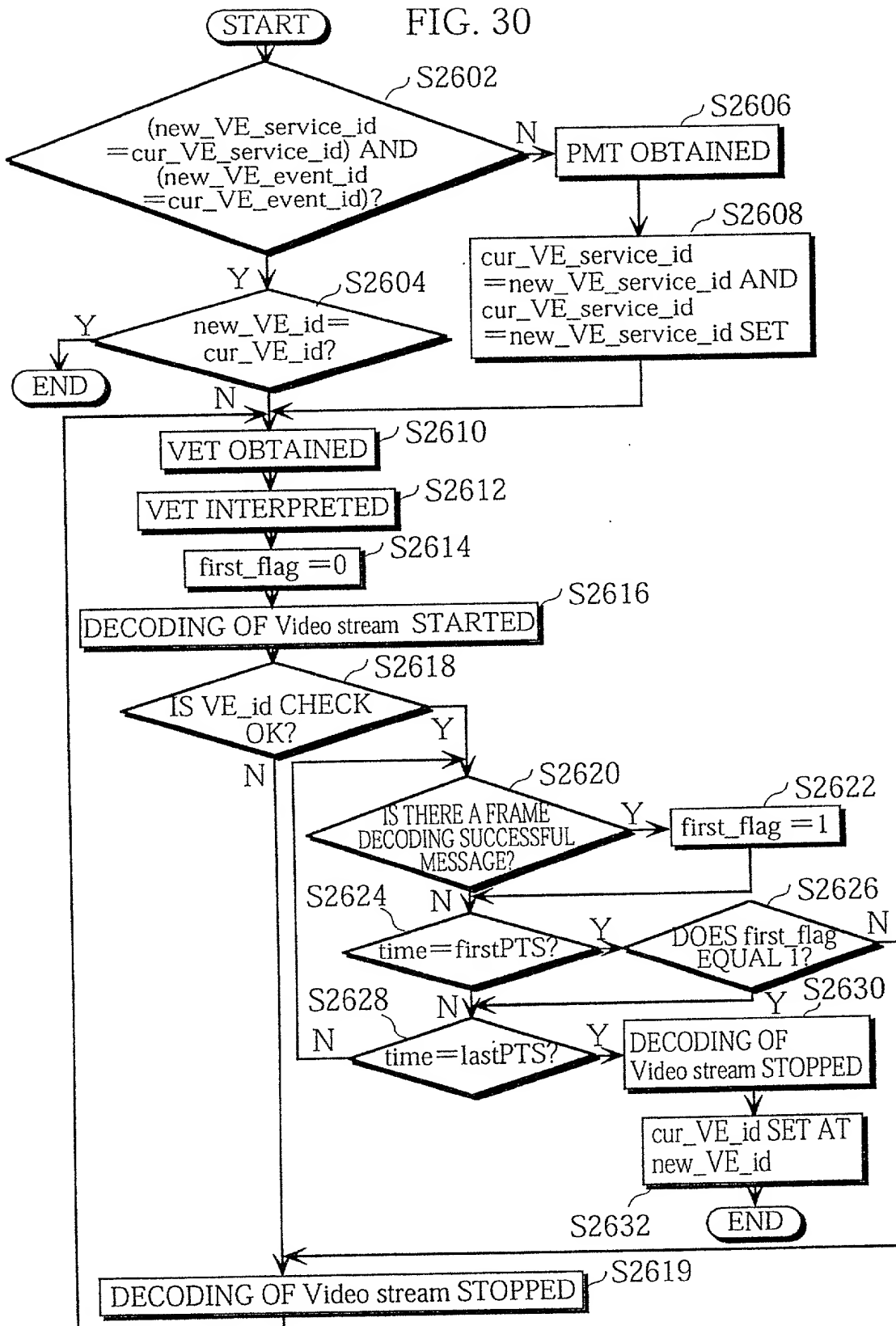
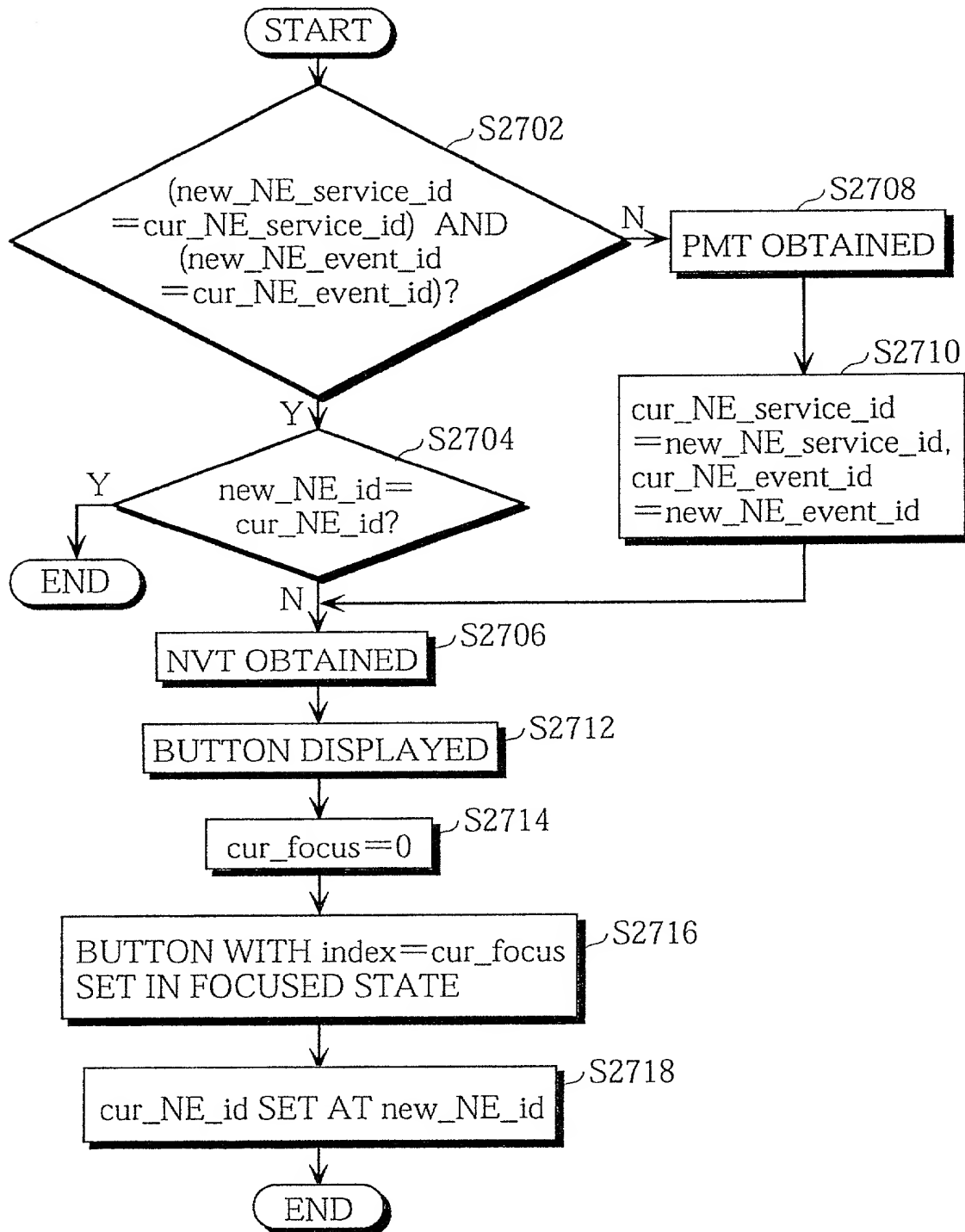


FIG. 31



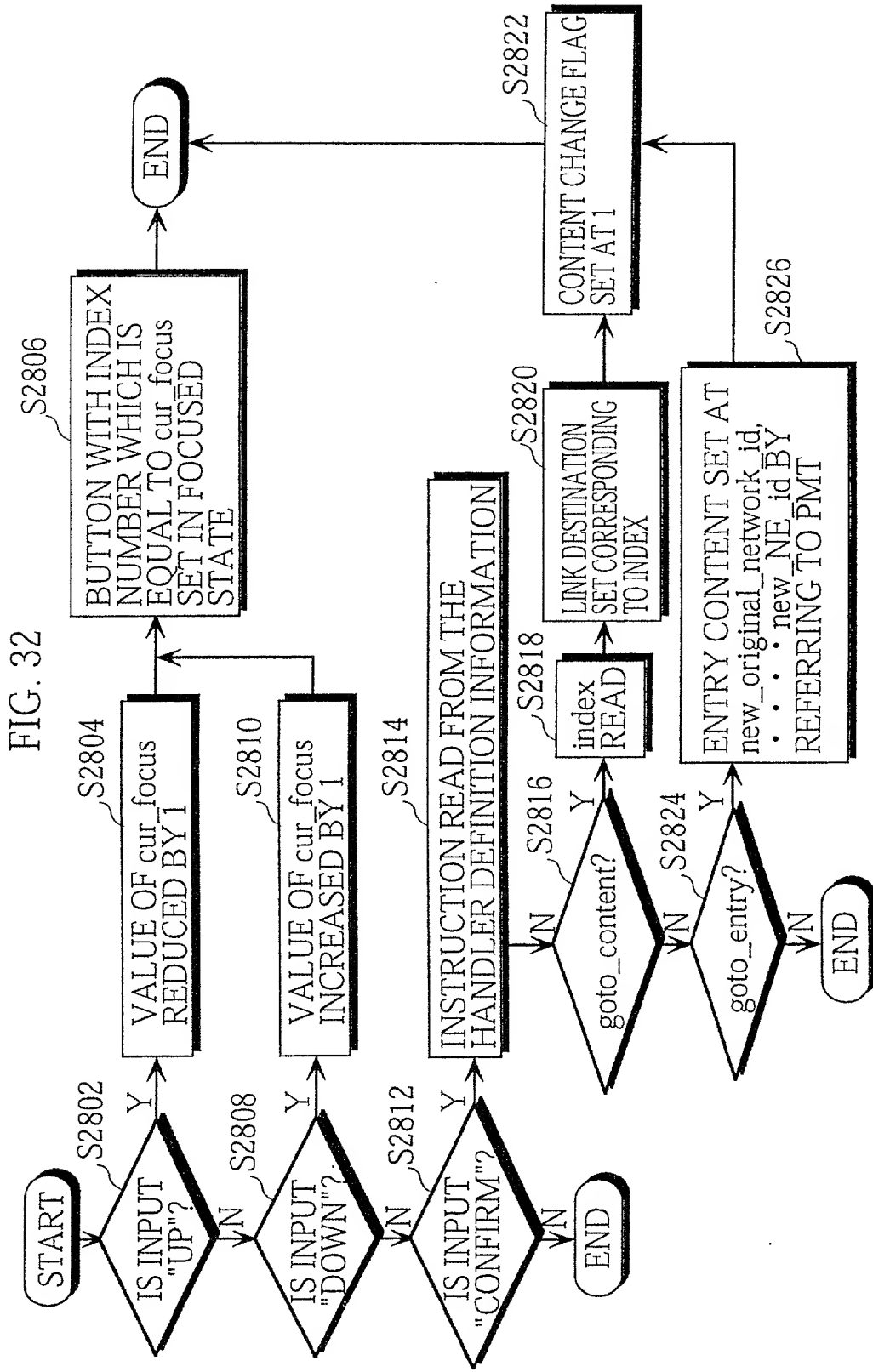


FIG. 33

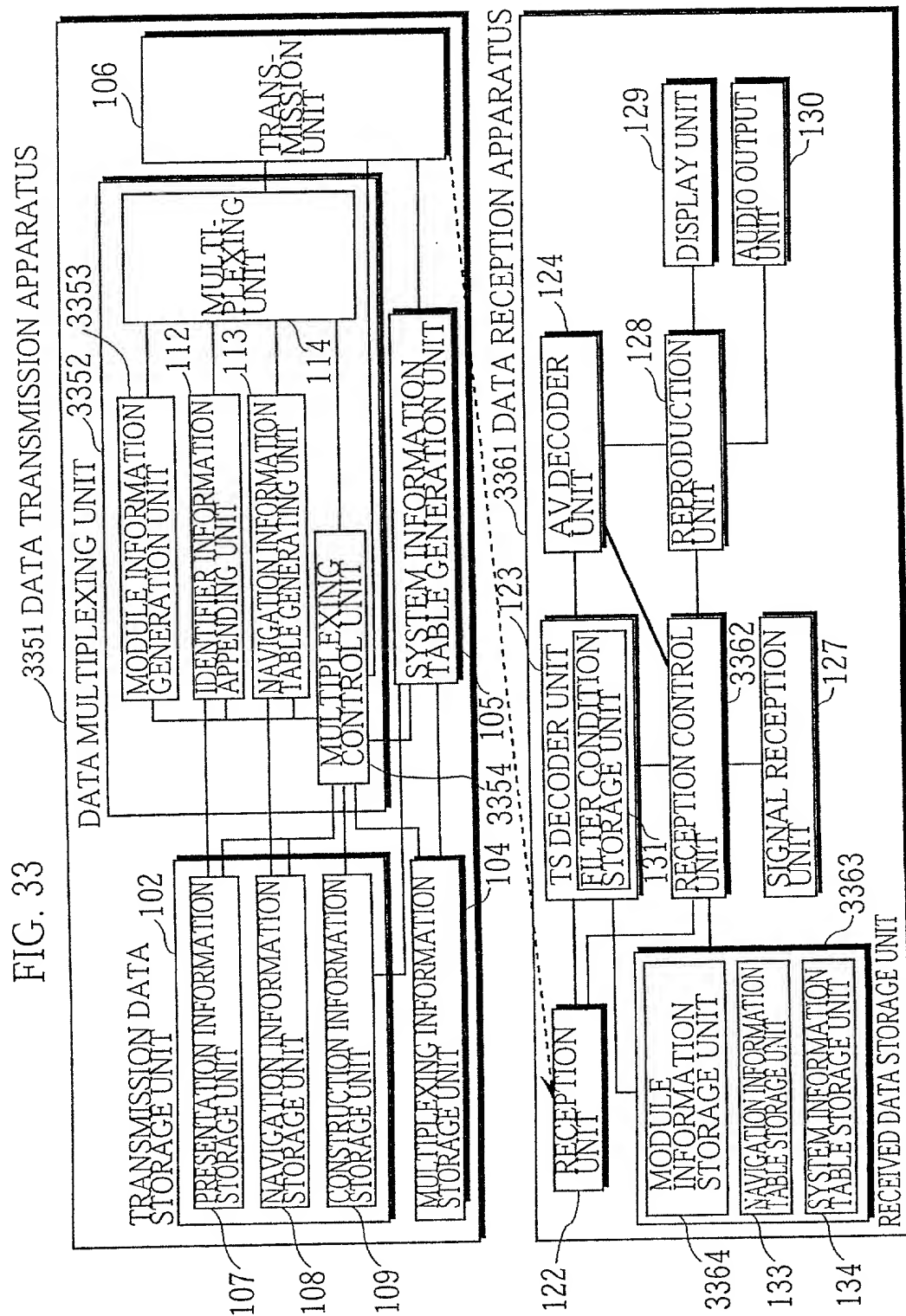


FIG. 34A

MIT(0)			3451		
VE_id	component_tag	stream_id	VE_id	component_tag	stream_id
0	0x00	0xe0			
1	0x00	0xe1			
2	0x00	0xe2			
3	0x00	0xe3			
4	0x00	0xe4			
5	0x00	0xe5			
6	0x00	0xe6			
7	0x00	0xe7			

FIG. 34B

MIT(1)		
VE_id	component_tag	stream_id
8	0x00	0xe8
9	0x00	0xe9
10	0x00	0xea
11	0x00	0xeb
12	0x00	0xec
13	0x00	0xed
14	0x00	0xee
15	0x00	0xef

FIG. 34C

MIT(2)		
VE_id	component_tag	stream_id
16	0x00	0xe0
17	0x00	0xe1
18	0x00	0xe2
19	0x00	0xe3
20	0x00	0xe4
21	0x00	0xe5
22	0x00	0xe6
23	0x00	0xe7

FIG. 36

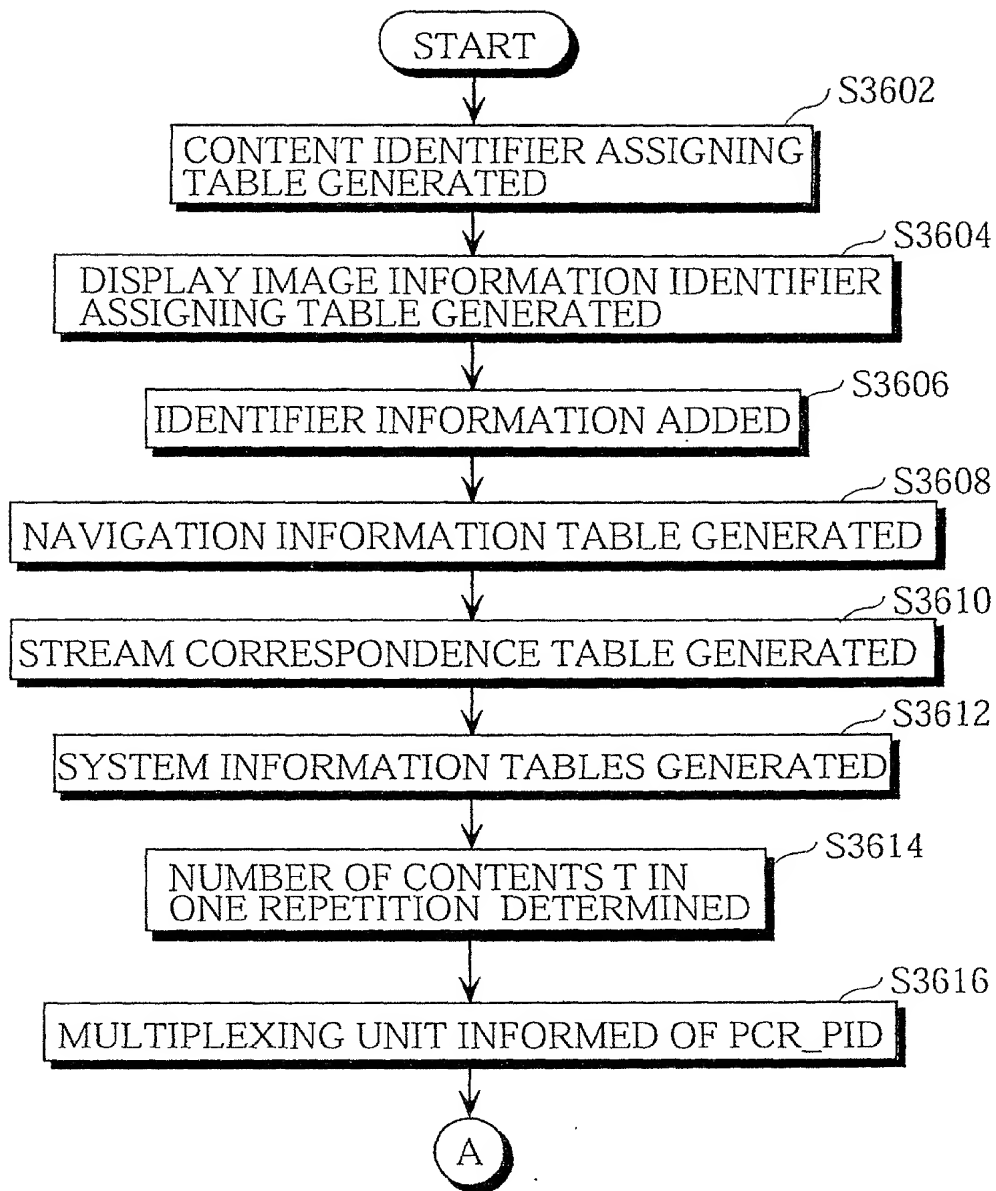


FIG. 35

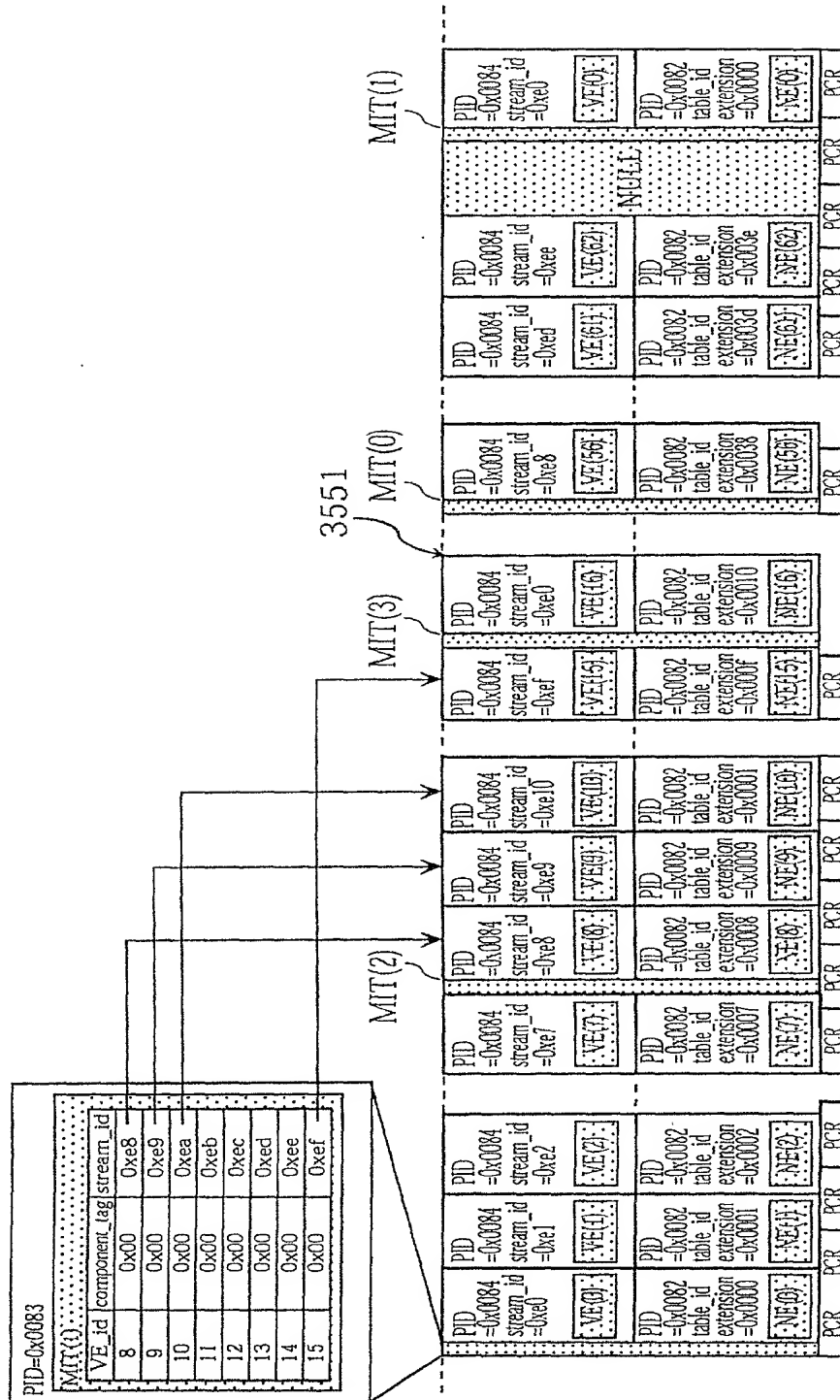


FIG. 36

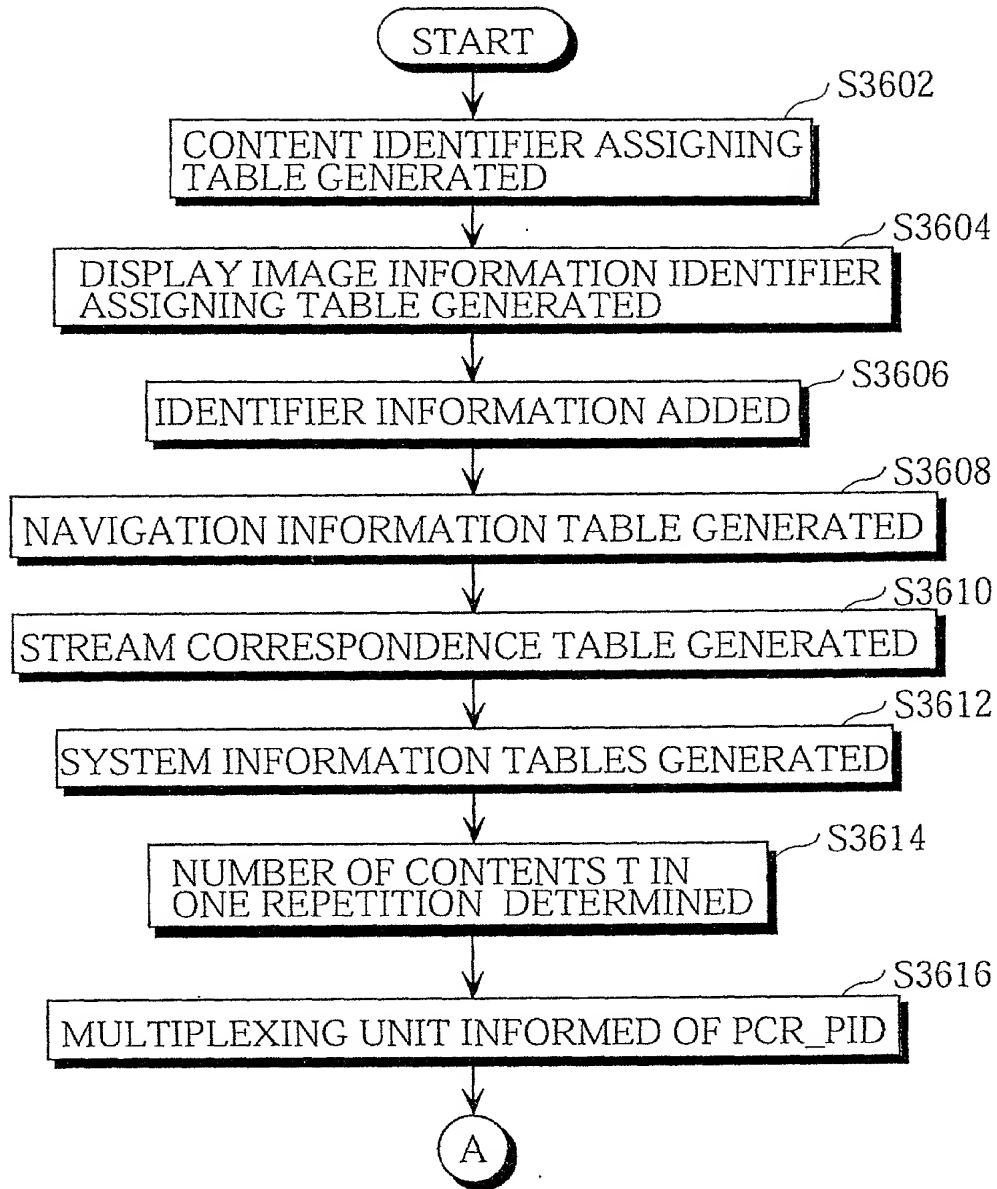


FIG. 37

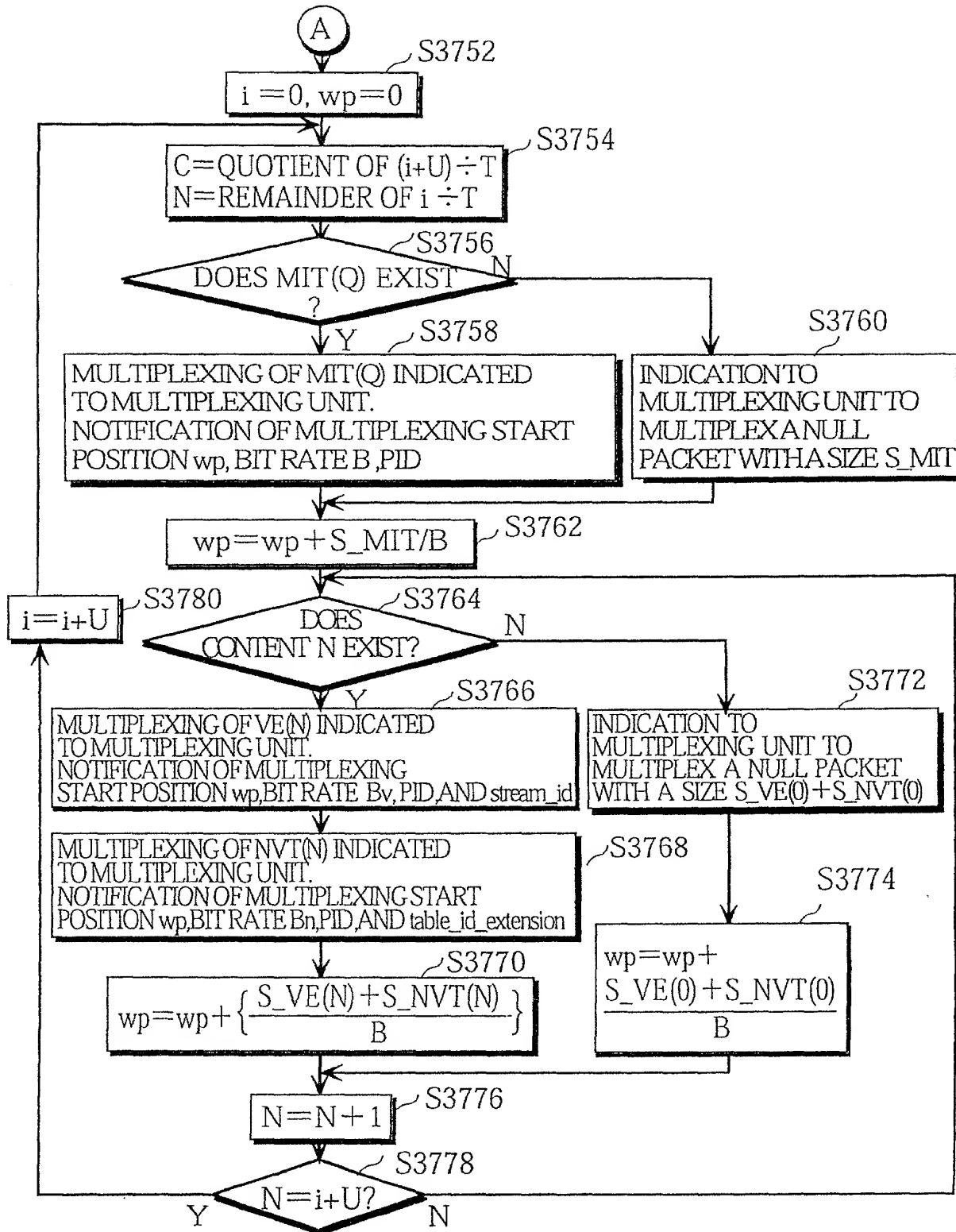


FIG. 38

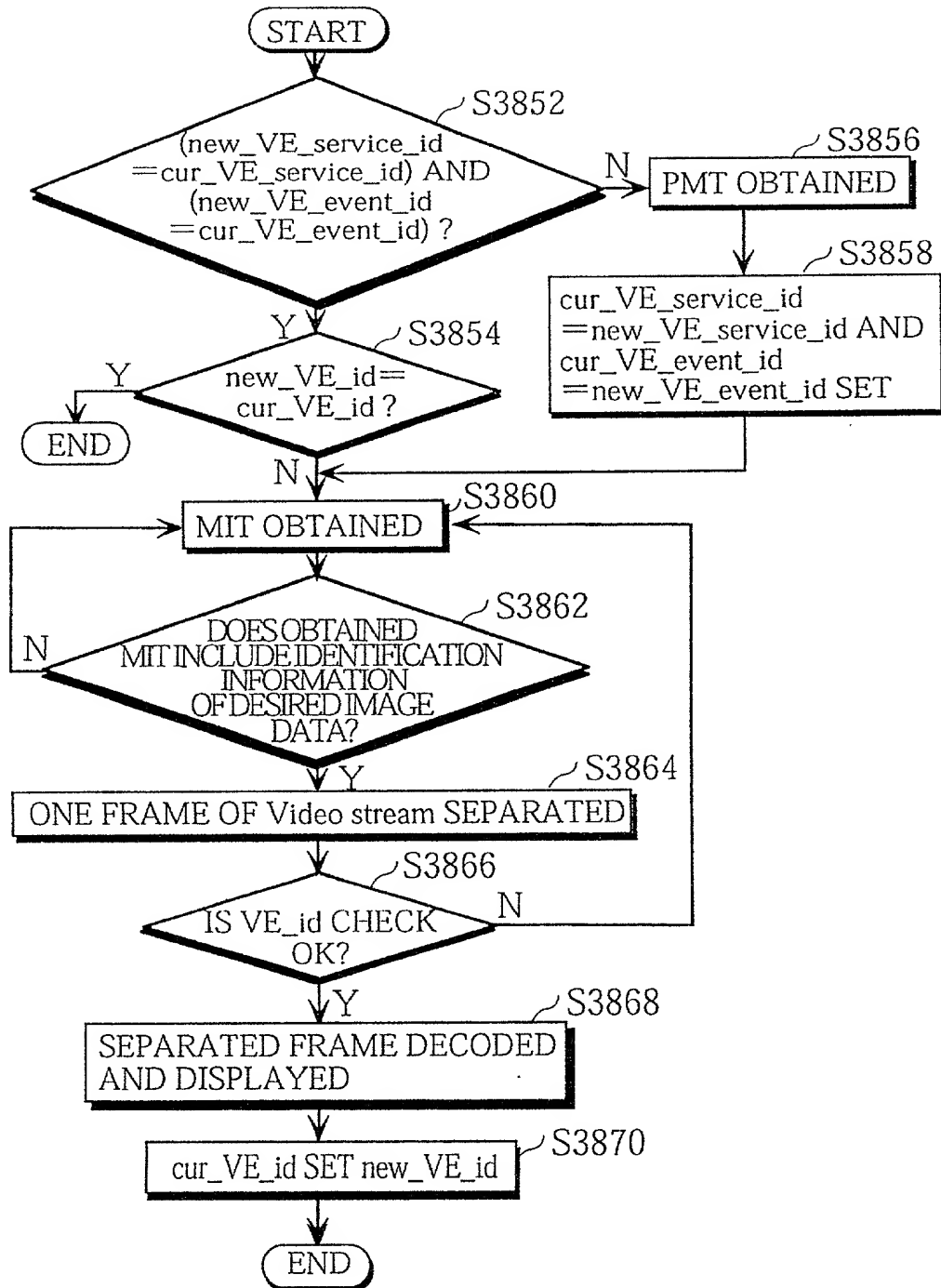


FIG. 39

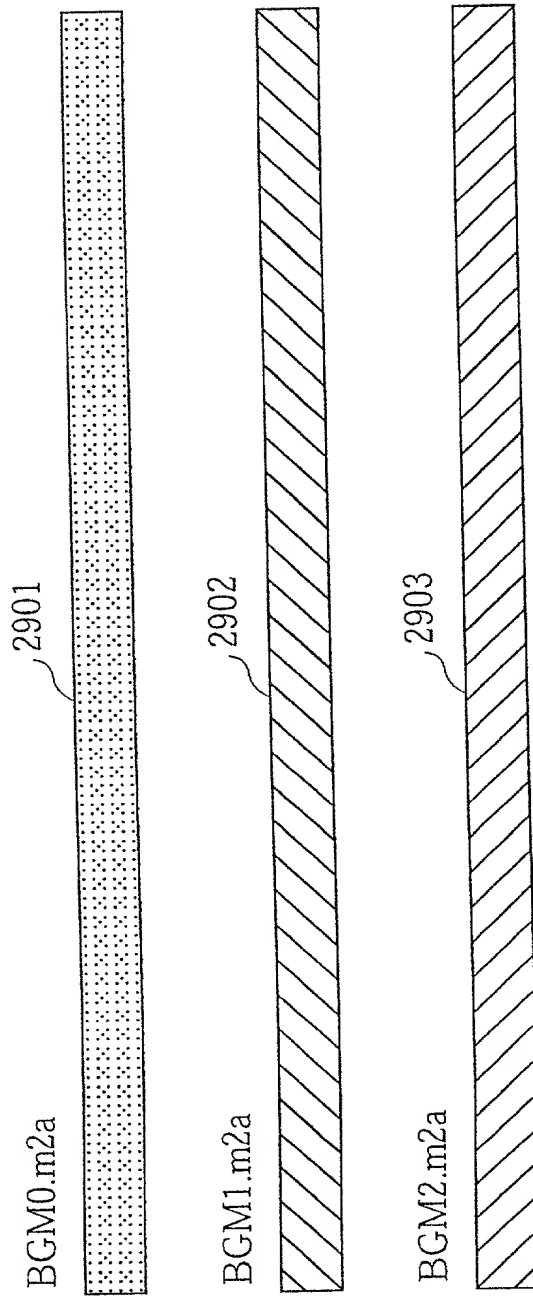


FIG. 40

3001 CONSTRUCTION INFORMATION TABLE

3003 CONTENT NUMBER	3004 IMAGE DATA	3005 AUDIO DATA	3006 NAVIGATION INFORMATION
0	still0.m2v	BGM0.m2a	navi0.nif
1	still1.m2v	BGM0.m2a	navi1.nif
2	still2.m2v	BGM2.m2a	navi2.nif
:	:	:	:
5	still5.m2v	BGM1.m2a	navi5.nif
:	:	:	:

3002 ENTRY INFORMATION

ENTRY CONTENT NUMBER	5
----------------------	---

FIG. 41

3101 MULTIPLEXING INFORMATION TABLE

	Bitrate	6000000bps
	original_network_id	0x0001
	transport_stream_id	0x0001
	service_id	0x0001
	event_id	0x0001
	PMT_PID	0x0080
	PCR_PID	0x0081
	NE_component_pid	0x0082
	VE_information_component_pid	0x0083
	VE_component_pid	0x0084
3102	AE_component_Bitrate0	500000 bps
3103	AE_component_pid0	0x0085
3104	AE_component_Bitrate1	500000 bps
3105	AE_component_pid1	0x0086
3106	AE_component_Bitrate2	500000 bps
3107	AE_component_pid2	0x0087

FIG. 43

NVT(5)

Object Definition Table :

Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	400	300	2	6	8
1	Button	400	400	3	7	9

Handler Definition Table :

Index	Script
2	goto_content (index 4)
3	goto_content (index 5)

Hyperlink Table :

Index	orig_nm_id	ts_id	VF_service_id	VF_event_id	VE_id	AE_service_id	AE_event_id	AE_comp_tag	NE_service_id	NE_event_id	NE_id
4	—	—	—	—	0x0001	—	—	0x00	—	—	0x0001
5	—	—	—	—	0x0002	—	—	0x02	—	—	0x0002

Bitmap Table :

Index	Bitmap Data
6	TOKYO
7	TOKYO
8	OSAKA
9	OSAKA

FIG. 45A

Program Map Table 3401

table_id=0x0002
:
program_number=0x0001
:
PCR_PID=0x0081
:
Entry_Descriptor
:
3402

PID	stream_type	descriptor
0x0082	0x05	NE_Component_Descriptor
0x0083	0x05	VE_Information_Component_Descriptor
0x0084	0x02	stream_identifier_descriptor
0x0085	0x03	stream_identifier_descriptor
0x0086	0x03	stream_identifier_descriptor
0x0087	0x03	stream_identifier_descriptor

FIG. 45B

Entry_Descriptor 3402

descriptor_tag=0x98

.....

entry_VE_id	entry_AE_comp_tag	entry_NE_id
0x0005	0x01	0x0005



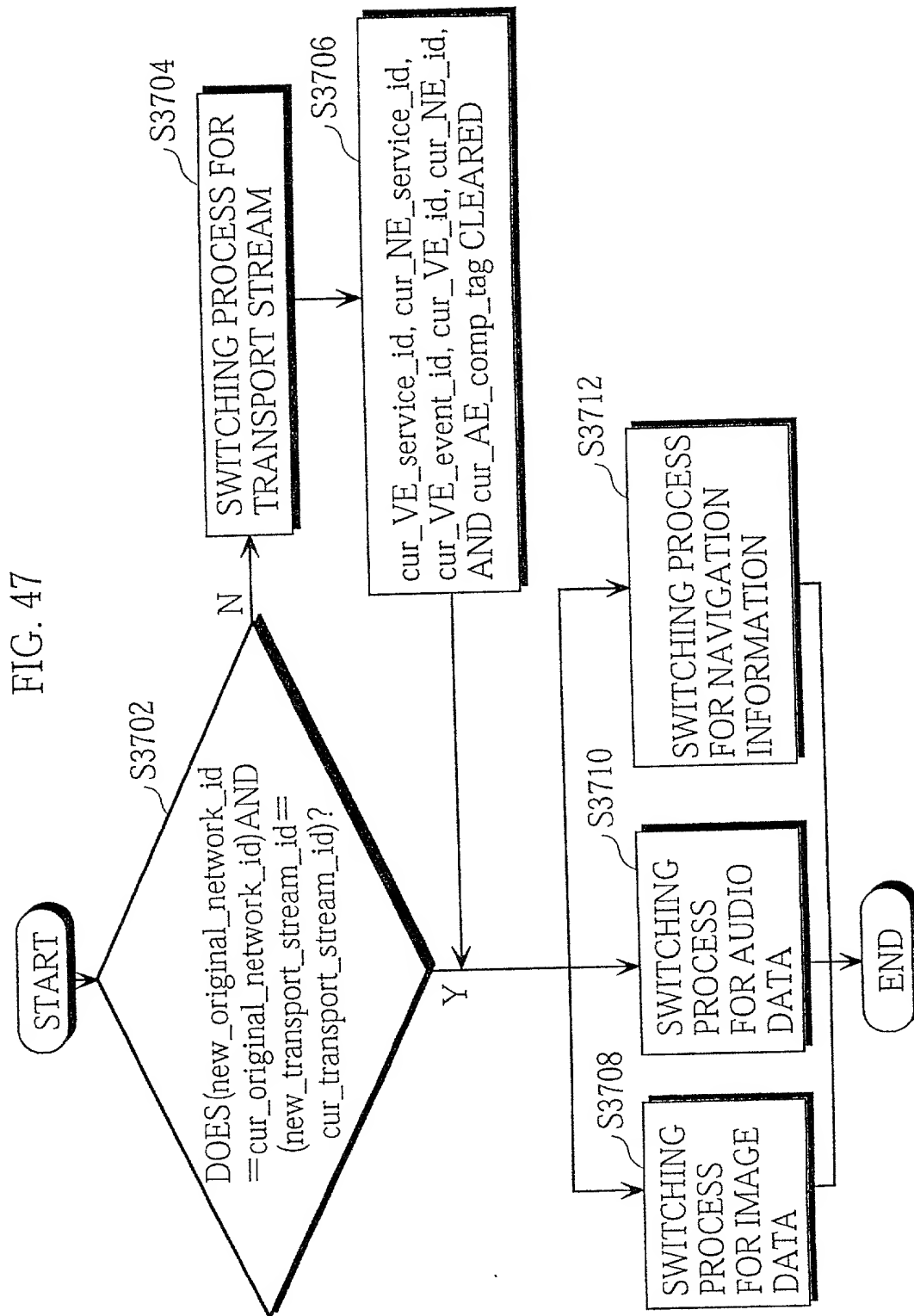


FIG. 48

FIG. 48

